

PRODUCT-DETAILS

# ACS880-04-505A-3

## ACS880-04-505A-3 PN: 250 kW, IN: 505 A




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### General Information

Global Commercial Alias	ACS880-04-505A-3
Product ID	3AUA0000139052
ABB Type Designation	ACS880-04-505A-3
Catalog Description	ACS880-04-505A-3 PN: 250 kW, IN: 505 A

The ACS880-04 drives are customized to meet the particular needs of specific industries, such as oil and gas, mining, metals, chemicals, cement, power plants, material handling, pulp and paper, sawmills, marine, water and wastewater, food and beverage, and automotive. They can control a wide range of applications, including cranes, extruders, winches, winders, conveyors, mixers, compressors, centrifuges, test benches, elevators, extruders, pumps and fans.

#### Long Description

The ACS880-04 modules have all the essential features built-in including a choke for harmonic filtering as standard, and options such as a brake chopper, EMC filter and communication protocol adapter, functional safety and I/O extension modules. The all built-in design combined with IP20 protection significantly simplifies engineering. The drive's compact size, flexible cabling directions and versatile mounting possibilities from narrow bookshelf to flat mounting and horizontal mounting make it an ideal fit for almost any enclosure. The control unit with I/O and communication connections can be mounted outside the power module or integrated into it.

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### Ordering

Country of Origin	Finland (FI)
Customs Tariff Number	85044088
Invoice Description	ACS880-04-505A-3 PN: 250 kW, IN: 505 A
Made To Order	Yes
Minimum Order Quantity	1 piece

Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

## Container Information

Gross Volume	272.372 dm <sup>3</sup>
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## Dimensions

Product Net Weight	165 kg
Product Net Depth / Length	505 mm
Product Net Height	1541 mm
Product Net Width	350 mm
Package Level 1 Depth / Length	2050 mm
Package Level 1 Height	502 mm
Package Level 1 Width	650 mm

## Technical

Number of Phases	3
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Sound dB (A)	72 dB(A)
Frequency (f)	50/60 Hz
Input Voltage (U <sub>in</sub> )	380 ... 415 V
Mounting Type	Module for cabinet building
Communication Protocol	MODBUS DeviceNet PROFIBUS PROFI-safe CAN EtherNet/IP PROFINET IO TCP/IP Other Bus Systems
Number of Hardware Interfaces	Industrial Ethernet 0 PROFINET 0 RS-232 0 RS-422 0 RS-485 1 Serial TTY 0 USB 1 Parallel 0 Other 6
Includes	With control unit Without optical interface With PC connection
Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6/5
Output Current, Heavy-Duty Use	361 A
Output Current, Light-Overload Use	485 A
Output Current, Normal Use	505 A

Output Power, Heavy-Duty Use	200 kW
Output Power, Light-Overload Use	250 kW
Output Power, Normal Use	250 kW
Apparent Power Output	350 kV·A
Efficiency Level	IE2
Standby Loss	392 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	1802 W	0.5 %	91.2 %
0 / 50 %	2543 W	0.7 %	93.5 %
0 / 100 %	4521 W	1.3 %	94.2 %
50 / 25 %	1933 W	0.6 %	95.3 %
50 / 50 %	2773 W	0.8 %	96.5 %
50 / 100 %	5260 W	1.5 %	96.7 %
90 / 50 %	3198 W	0.9 %	97.7 %
90 / 100 %	6493 W	1.9 %	97.7 %

Temperature Rating Maximum 40 °C

## Additional Information

Product Main Type	ACS880-04
Product Name	Frequency converter

## Classifications

Product Series	ACS880-04
ETIM 7	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

## Environmental

WEEE Category 4. Large Equipment (Any External Dimension More Than 50 cm)

## Categories

Drives → Low Voltage AC Drives → Industrial Drives → ACS880 drive modules → ACS880-04 - Single drive module

